

PC-0028 US

<110> Lasek, Amy W.
Krasnow, Randi E.
Baughn, Mariah R.

<120> INTESTINAL PROTEINS

<130> PC-0028 CIP

<140> To Be Assigned

<141> Herewith

<160> 32

<170> PERL Program

<210> 1

<211> 475

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3229449CD1

<400> 1

Met	Lys	Ile	Ser	Met	Ile	Asn	Tyr	Lys	Ser	Leu	Leu	Ala	Leu	Leu
1				5					10					15
Phe	Ile	Leu	Ala	Ser	Trp	Ile	Ile	Phe	Thr	Val	Phe	Gln	Asn	Ser
				20					25					30
Thr	Lys	Val	Trp	Ser	Ala	Leu	Asn	Leu	Ser	Ile	Ser	Leu	His	Tyr
				35					40					45
Trp	Asn	Asn	Ser	Thr	Lys	Ser	Leu	Phe	Pro	Lys	Thr	Pro	Leu	Ile
				50					55					60
Ser	Leu	Lys	Pro	Leu	Thr	Glu	Thr	Glu	Leu	Arg	Ile	Lys	Glu	Ile
				65					70					75
Ile	Glu	Lys	Leu	Asp	Gln	Gln	Ile	Pro	Pro	Arg	Pro	Phe	Thr	His
				80					85					90
Val	Asn	Thr	Thr	Thr	Ser	Ala	Thr	His	Ser	Thr	Ala	Thr	Ile	Leu
				95					100					105
Asn	Pro	Arg	Asp	Thr	Tyr	Cys	Arg	Gly	Asp	Gln	Leu	His	Ile	Leu
				110					115					120
Leu	Glu	Val	Arg	Asp	His	Leu	Gly	Arg	Arg	Lys	Gln	Tyr	Gly	Gly
				125					130					135
Asp	Phe	Leu	Arg	Ala	Arg	Met	Ser	Ser	Pro	Ala	Leu	Met	Ala	Gly
				140					145					150
Ala	Ser	Gly	Lys	Val	Thr	Asp	Phe	Asn	Asn	Gly	Thr	Tyr	Leu	Val
				155					160					165
Ser	Phe	Thr	Leu	Phe	Trp	Glu	Gly	Gln	Val	Ser	Leu	Ser	Leu	Leu
				170					175					180
Leu	Ile	His	Pro	Ser	Glu	Gly	Val	Ser	Ala	Leu	Trp	Ser	Ala	Arg
				185					190					195
Asn	Gln	Gly	Tyr	Asp	Arg	Val	Ile	Phe	Thr	Gly	Gln	Phe	Val	Asn
				200					205					210
Gly	Thr	Ser	Gln	Val	His	Ser	Glu	Cys	Gly	Leu	Ile	Leu	Asn	Thr
				215					220					225
Asn	Ala	Glu	Leu	Cys	Gln	Tyr	Leu	Asp	Asn	Arg	Asp	Gln	Glu	Gly

PC-0028 US

Phe Tyr Cys Val	230	235	240
Arg Pro Gln His Met	245	250	255
His Met Tyr Ser	260	265	270
Lys Asn Lys Lys Val	275	280	285
Glu Lys Ser Leu	290	295	300
Phe Glu Arg Ser Asn	305	310	315
Val Gly Val Glu Ile	320	325	330
Glu Lys Phe Asn Thr	335	340	345
Ile Ser Val Ser	350	355	360
Lys Cys Asn Thr Leu	365	370	375
Ser Val Asp Leu	380	385	390
His Glu Ser Gly Lys	395	400	405
Leu Gln His Gln Leu	410	415	420
Ala	425	430	435
Val Asp Leu Asp	440	445	450
Arg Asn Ile Asn Ile	455	460	465
Gln Trp Gln Lys Tyr	470	475	
Cys			

<210> 2
<211> 547
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7484349CD1

Met Ser Ser Asn Thr	Met Leu Gln Lys Thr	Leu Leu Ile Leu Ile
1	5	10
Ser Phe Ser Val Val	Thr Trp Met Ile Phe	Ile Ile Ser Gln Asn
20	25	30
Phe Thr Lys Leu Trp	Ser Ala Leu Asn Leu	Ser Ile Ser Val His
35	40	45
Tyr Trp Asn Asn Ser	Ala Lys Ser Leu Phe	Pro Lys Thr Ser Leu
50	55	60
Ile Pro Leu Lys Pro	Leu Thr Glu Thr Glu	Leu Arg Ile Lys Glu
65	70	75
Ile Ile Glu Lys Leu	Asp Gln Gln Ile Pro	Pro Arg Pro Phe Thr
80	85	90

PC-0028 US

His	Val	Asn	Thr	Thr	Thr	Ser	Ala	Thr	His	Ser	Thr	Ala	Thr	Ile
				95					100					105
Leu	Asn	Pro	Arg	Asp	Thr	Tyr	Cys	Arg	Gly	Asp	Gln	Leu	Asp	Ile
				110					115					120
Leu	Leu	Glu	Val	Arg	Asp	His	Leu	Gly	Gln	Arg	Lys	Gln	Tyr	Gly
				125					130					135
Gly	Asp	Phe	Leu	Arg	Ala	Arg	Met	Ser	Ser	Pro	Ala	Leu	Thr	Ala
				140					145					150
Gly	Ala	Ser	Gly	Lys	Val	Met	Asp	Phe	Asn	Asn	Gly	Thr	Tyr	Leu
				155					160					165
Val	Ser	Phe	Thr	Leu	Phe	Trp	Glu	Gly	Gln	Val	Ser	Leu	Ser	Leu
				170					175					180
Leu	Leu	Ile	His	Pro	Ser	Glu	Gly	Ala	Ser	Ala	Leu	Trp	Arg	Ala
				185					190					195
Arg	Asn	Gln	Gly	Tyr	Asp	Lys	Ile	Ile	Phe	Lys	Gly	Lys	Phe	Val
				200					205					210
Asn	Gly	Thr	Ser	His	Val	Phe	Thr	Glu	Cys	Gly	Leu	Thr	Leu	Asn
				215					220					225
Ser	Asn	Ala	Glu	Leu	Cys	Glu	Tyr	Leu	Asp	Asp	Arg	Asp	Gln	Glu
				230					235					240
Ala	Phe	Tyr	Cys	Met	Lys	Pro	Gln	His	Met	Pro	Cys	Glu	Ala	Leu
				245					250					255
Thr	Tyr	Met	Thr	Thr	Arg	Asn	Arg	Glu	Val	Ser	Tyr	Leu	Thr	Asp
				260					265					270
Lys	Glu	Asn	Ser	Leu	Phe	His	Arg	Ser	Lys	Val	Gly	Val	Glu	Met
				275					280					285
Met	Lys	Asp	Arg	Lys	His	Ile	Asp	Val	Thr	Asn	Cys	Asn	Lys	Arg
				290					295					300
Glu	Lys	Ile	Glu	Glu	Thr	Cys	Gln	Val	Gly	Met	Lys	Pro	Pro	Val
				305					310					315
Pro	Gly	Gly	Tyr	Thr	Leu	Gln	Gly	Lys	Trp	Ile	Thr	Thr	Phe	Cys
				320					325					330
Asn	Gln	Val	Gln	Leu	Asp	Thr	Ile	Lys	Ile	Asn	Gly	Cys	Leu	Lys
				335					340					345
Gly	Lys	Leu	Ile	Tyr	Leu	Leu	Gly	Asp	Ser	Thr	Leu	Arg	Gln	Trp
				350					355					360
Ile	Tyr	Tyr	Phe	Pro	Lys	Val	Val	Lys	Thr	Leu	Lys	Phe	Phe	Asp
				365					370					375
Leu	His	Glu	Thr	Gly	Ile	Phe	Lys	Lys	His	Leu	Leu	Leu	Asp	Ala
				380					385					390
Glu	Arg	His	Thr	Gln	Ile	Gln	Trp	Lys	Lys	His	Ser	Tyr	Pro	Phe
				395					400					405
Val	Thr	Phe	Gln	Leu	Tyr	Ser	Leu	Ile	Asp	His	Asp	Tyr	Ile	Pro
				410					415					420
Arg	Glu	Ile	Asp	Arg	Leu	Ser	Gly	Asp	Lys	Asn	Thr	Ala	Ile	Val
				425					430					435
Ile	Thr	Phe	Gly	Gln	His	Phe	Arg	Pro	Phe	Pro	Ile	Asp	Ile	Phe
				440					445					450
Ile	Arg	Arg	Ala	Ile	Gly	Val	Gln	Lys	Ala	Ile	Glu	Arg	Leu	Phe
				455					460					465
Leu	Arg	Ser	Pro	Ala	Thr	Lys	Val	Ile	Ile	Lys	Thr	Glu	Asn	Ile
				470					475					480
Arg	Glu	Met	His	Ile	Glu	Thr	Glu	Arg	Phe	Gly	Asp	Phe	His	Gly
				485					490					495
Tyr	Ile	His	Tyr	Leu	Ile	Met	Lys	Asp	Ile	Phe	Lys	Asp	Leu	Asn
				500					505					510

PC-0028 US

Val Gly Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr
515 520 525
Asp Thr Ile His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn
530 535 540
Met Phe Leu Asn Tyr Ile Cys
545

<210> 3
<211> 1616
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3229449CB1

<400> 3
atccatgcta aaggtaaaca aactgcaact tatatctgca atttattttg gtatagacaa 60
gaggtatgcc agtagcacac tgggtggcttc agaagaaatt ctcaacacct agctcgccag 120
agagtctatg tatgggattg aacaatctgt aaactaaagg atcctaataca tgaaaataag 180
tatgataaat tataagtcac tattggcact gttgtttata ttagcctcct ggatcatttt 240
tacagttttc cagaactcca caaaggtttg gtctgctcta aacttatcca tctccctcca 300
ttactggaac aactccacaa agtccttatt ccctaaaaca ccactgatat cattaaagcc 360
actaacagag actgaactca gaataaagga aatcatagag aaactagatc agcagatccc 420
acccagacct ttcacccacg tgaacaccac caccagcgcc acacatagca cagccacccat 480
cctcaacctt cgagatacgt actgcagggg agaccagctg cacatcctgc tggagggtgag 540
ggaccacttg ggacgcagga agcaatatgg cggggatttc ctgaggggcca ggatgtcttc 600
cccagcgctg atggcaggtg cttcaggaaa ggtgactgac ttcaacaacg gcacctacct 660
ggtcagcttc actctgttct gggaggggcca ggtctctctg tctctgctgc tcatccaccc 720
cagtgaaggg gtgtcagctc tctggagtgc aaggaaccaa ggctatgaca gggatgatct 780
cactggccag tttgtcaatg gcacttccca agtcactctt gaatgtggcc tgatcctaaa 840
caciaaatgct gaattgtgcc agtacctgga caacagagac caagaaggct tctactgtgt 900
gaggcctcaa cacatgccct gtgctgcact cactcacatg tattctaaga acaagaaagt 960
ttcttatctt agcaaacaag aaaagagcct ctttgaaagg tcaaagtgtg gtgtagagat 1020
tatggaaaaa ttcaatacaa ttagtgtctc caaatgcaac aactgaagt cagtggatct 1080
gcatgaatct ggaaaattgc aacaccagct tgctgtggat ttggatagga acatcaacat 1140
ccagtggcaa aaatattgtt atcccttgat aggatcaatg acctattcag tcaaagagat 1200
ggagtacctc acccggggcca ttgacagaac tggaggagaa aaaaatactg tcattgttat 1260
ttccctgggc cagcatttca gaccctttcc cattgatgtt tttatccgaa gggccctcaa 1320
tgtccacaaa gccattcagc atcttcttct gagaagccca gacactatgg ttatcatcaa 1380
aacagaaaac atcagggaga tgtacaatga tgcagaaaga tttagtactg ttcattggtta 1440
cattcaatat ctcatcataa aggacatttt ccaggatctc agtgtgagta tcattgatgc 1500
ctgggatata acaattgcat atggcacaaa taatgtacac ccacctcaac atgtagtcgg 1560
aatcagatt aatatattat taaactatat ttgttaaata acaaaaaaaaa aaaaaa 1616

<210> 4
<211> 240
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2771041H1

<400> 4
atccatgcta aaggtaaaca aactgcaact tatatctgca atttattttg gtatagacaa 60

PC-0028 US

gaggatgccc agtagcacac tgggtggcttc agaagaaatt ctcaacacct agctcgccag 120
agagtctatg tatgggattg aacaatctgt aaactaaagg atcctaataca tgaaaataag 180
tatgataaat tataagtcac tattggcact gttgtttata ttagcctcct ggatcatttt 240

<210> 5

<211> 621

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 71851705V1

<400> 5

gccacattca gaagtggact tgggaagtgc cattgacaaa ctggccagtg aagatcaccc 60
tgtcatagcc ttggttcctt gcactccaga gagctgacac cccttcactg gggtaggatga 120
gcagcagaga cagagagacc tggccctccc agaacagagt gaagctgacc aggtagggtgc 180
cggtgttgaa gtcagtcacc ttctctgaag cacctgccat cagcgctggg gaagacatcc 240
tggeccctcag gaaatccccg ccatattgct tcctgcgtcc caagtgggtcc ctcacctcca 300
gcaggatgtg cagctgggtct cccctgcagt acgtatctcg aggggttgagg atgggtggctg 360
tgctatgtgt ggcgctgggtg gtggtgttca cgtgggtgaa aggtctgggt ggggtctgct 420
gatctagttt ctctatgatt tcctttattc tgagttcagt ctctgttagt ggctttaatg 480
atatcagtgg tgttttaggg aataaggact ttgtggagtt gttccagtaa tggagggaga 540
tggaataagt tagagcagac caaacctttg tggagttctg gaaaactgta aaaatgatcc 600
aggaggctaa tataaacaac a 621

<210> 6

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70255975V1

<400> 6

gccacattca gagtggactt gggaagtgcc attgacaaac tggccagtgga agatcacccct 60
gtcatagcct tgggttccttg cactccagag agctgacacc ccttcactgg ggtggatgag 120
cagcagagac agagagacct ggccctccca gaacagagtg aagctgacca ggtagggtgcc 180
gttggtgaag tcagtcacct ttctgaagc acctgccatc agcgctgggg aagacatcct 240
ggccctcagg aaatccccgc catattgctt cctgcgtccc aagtgggtccc tcacctccag 300
caggatgtgc agctgggtctc ccctgcagta cgtatctcga ggggttgagga tgggtggctgt 360
gctatgtgtg gcgctgggtg tgggtgttcac gtgggtgatc ggtctgggtg ggatctgctg 420
atctagtttc tctatgattt cctttattct gagttcagtc tctgttagtg gctttaatga 480
tatcagtggg gttttaggga ataaggactt tctggacgtc gttcagtaat ggagggagat 540
ggata 545

<210> 7

<211> 236

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5596934H1

PC-0028 US

<220>

<221> unsure

<222> 228

<223> a, t, c, g, or other

<400> 7

```
ggaaccaagg ctattgacag ggtgatcttc actggccagt ttgtcaatgg cacttcccaa 60
gtccactctg aatgtggcct gatcctaaac acaaatgctg aattgtgcca gtacctggac 120
aacagagacc aagaaggctt ctactgtgtg aggcctcaac acatgccctg tgctgcactc 180
actcacatgt attctaagaa caagaaagtt tcttatctta gcaaacanga aaagag      236
```

<210> 8

<211> 414

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3229449F6

<220>

<221> unsure

<222> 47, 105, 248

<223> a, t, c, g, or other

<400> 8

```
caagtttggg atgacatcca caatccccag tgggcatgtc tggaganaca catggaatcc 60
tgtctcctgt agttttggcta cagtcaaaat gaaggaatgc ctganaggaa aactcatata 120
cctaattggga gattccacga tccgccagtg gatggaatac ttcaaagcca gtatcaacac 180
actgaagtca gtggatctgc atgaatctgg aaaattgcaa caccagcttg ctgtggattt 240
ggataggnac atcaacatcc agtggcaaaa acattgttat cccttgatag gatcaatgac 300
ctattcagtc aaagagatgg agtacctcac ccggggccat tgacagaact ggagggagaa 360
aaaaatactg tcattgttat ttccctgggg ccagcatttc agaccctttt ccca      414
```

<210> 9

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7128544H1

<400> 9

```
ggtgaggtag tccatctctt tgacagaact ggaggagaaa aaaatactgt cattgttatt 60
tccctggggc agcatttcag accctttccc attgatgttt ttatccgaag ggccctcaat 120
gtccacaaag ccatttcagca tcttcttctg agaagcccag acactatggg tatcatcaaa 180
acagaaaaca tcagggagat gtacaatgat gcagaaagat ttagtgactt tcatggttac 240
attcaatatc tcatcataaa ggacattttc caggatctca gtgtgagtat cattgatgcc 300
tgggatataa caattgcata tggcaciaat aatgtacacc cacctcaaca tgtagtcgga 360
aatcagatta atatattatt aaactatatt tggt      394
```

<210> 10

<211> 2248

<212> DNA

<213> Homo sapiens

PC-0028 US

<220>

<221> misc_feature

<223> Incyte ID No: 7484349CB1

<400> 10

```
gccagttaag aactcacagg tactttttcca gccacccaga taggagagat cattaaaaca 60
gtgcattctg tgctacctga cacctattgg ggtcctggaa ggaggaagca acaatcctga 120
gtgaaacctc gacaagaagt atccaatagg acattcgtca tgcctcctaaa tacaatgctt 180
caaaaaacgc tgctgatctt gatctctttt tcagtagtaa cctggatgat ttttataatt 240
tctcagaact tcacaaagct ttgggtctgct ctaaacttat ccctctctgt ccattactgg 300
aacaactccg caaagtcctt attccctaaa acatcactga taccattaaa gccactaaca 360
gagactgaac tcagaataaa ggaaatcata gagaaactag atcagcagat cccacccaga 420
cctttcaccc atgtgaacac caccaccagt gccacacaca gcacagccac catcctcaac 480
cctcgagata catactgcag gggagaccag ctggacatcc tactggaggt gagggaccac 540
ttgggacaga ggaagcaata tgggtggggat ttcttgaggg ccaggatgtc ctccccagca 600
ctgacggcag gtgcttcagg aaaggtgatg gacttcaaca atggcaccta cctggtcagc 660
ttcactctgt tctgggaggg ccaggctctc ctgtctctgc tgctcatcca cccagtgaa 720
ggggcgctcg ctctctggag ggcaaggaa caaggctatg ataaaattat tttcaaaggc 780
aaatttgcta atggcacctc tcatgtcttc actgaatgtg gcctgaccct aaactcaaat 840
gctgaactct gtgaatatct ggatgacaga gaccaagaag ccttctattg tatgaagcct 900
caacacatgc cctgtgaggg tctgacctac atgaccacc ggaatagaga ggtatcttat 960
cttacagaca aggaaaacag cctttttccac aggtccaaag tgggagttga aatgatgaag 1020
gatcgtaaac acattgatgt cactaattgt aacaagagag aaaaaataga agagacatgc 1080
caagttggaa tgaagcctcc tgcctctggg ggttatactt tacaaggaaa atggataaca 1140
acattttgca accaggttca gttagacaca attaagataa atggctgttt gaaaggcaaa 1200
ctcatttacc tcttgggaga ctctacacta cgtcagtgga tctactactt ccccaaagtt 1260
gtaaaaacac tgaagttttt tgatcttcat gaaactggaa tctttaagaa acatttgctt 1320
ctggatgcag aaagacacac tcagattcaa tggaaaaaac atagctatcc cttcgtcact 1380
ttccagctct actctctgat agatcatgat tatatccctc gggaaattga cgggctatca 1440
ggtgacaaaa acacagccat cgtcatcacc tttggccagc acttttagacc atttcccatt 1500
gacattttta ttcgcagggc catcggtgtt caaaaggcta ttgaaagact gttcctaaga 1560
agcccagcca cttaaagtgat tattaagaca gaaaacatca gggagatgca catagagaca 1620
gagaggtttg gagacttcca tgggttatatt cactatctta tcatgaagga tatttttcaa 1680
gacctcaacg tgggcatcat tgatgcctgg gacatgacca ttgcatatgg cactgacact 1740
atccacccac ctgatcatgt gattggaaat cagattaaca tgttctttaa ctacatttgc 1800
taagggataa atactatata aaatcactag gaaccaatct ctgcacataa tcccacatgt 1860
attgtaaagt aagtttttact catttttagga actaaggaaa ataaatttaa aagaatctgt 1920
ttggggagga aggtatgta aggacaatga caactgataa gggatgcaaa accaagagaa 1980
tcattcatga agaattgact taccatgcct ggttctgatg ctcgttttaa atattaaaaa 2040
agttttttta aagccatggt attaaagctga tttgaaaata tctgtacaaa ttcattgatgc 2100
tttctatttc caatatagat atttcctagc tctgtctatt gaaaaggcct aggagcaatg 2160
ataacccatt agcaataatc actccgagca ccctaactgt gatgtctaag aacccttcct 2220
caataaaaga aaagaggcat ccttgaag 2248
```

<210> 11

<211> 661

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1333949F6

<400> 11

```
gccagttaag aactcacagg tactttttcca gccacccaga taggagagat cattaaaaca 60
gtgcattctg tgctacctga cacctattgg ggtcctggaa ggaggaagca acaatcctga 120
```

PC-0028 US

```
gtgaaacctc gacaagaagt atccaatagg acattcgtca tgtcctcaaa tacaatgctt 180
caaaaaacgc tgctgatctt gatctctttt tcagtagtaa cctggatgat ttttataatt 240
tctcagaact tcacaaagct ttggtctgct ctaaacttat ccatctctgt ccattactgg 300
aacaactccg caaagtcctt attccctaaa acatcactga taccattaaa gccactaaca 360
gagactgaac tcagaataaa ggaaatcata gagaaactag atcagcagat cccacccaga 420
cctttcaccc atgtgaacac caccaccagt gccacacaca gcacagccac catcctcaac 480
cctcgagata catactgcag gggagaccag ctggacatcc tactggaggt gagggaccac 540
ttgggacaga ggaagcaata tgggtggggat ttcctgaggg ccaggatgtc ctccccagca 600
ctgacggcag gtgcttcagg aaaggtgatg gacttcaaca atggcaccta cctggtcagc 660
t 661
```

<210> 12
<211> 518
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7604658J1

```
<400> 12
ggtggtcatg taggtcagag cctcacaggg catgtgttga ggcttcatac aatagaaggc 60
ttcttggtct ctgtcatcca gatattcaca gagttcagca tttgagttta gggtcaggcc 120
acattcagtg aagacatgag aggtgccatt aacaaatttg cctttgaaaa taattttatc 180
atagccttgg ttccttgccc tccagagagc cgacgcccct tactgggggt ggatgagcag 240
cagagacagg gagacctggc cctcccagaa cagagtgaag ctgaccagggt aggtgccatt 300
gttgaagtcc atcacctttc ctgaagcacc tgccgtcagt gctggggagg acatcctggc 360
cctcaggaaa tccccaccat attgcttcct ctgtcccaag tggtcctca cctccagtag 420
gatgtccagc tgggtctccc tgcagtatgt atctcgaggg ttgaggatgg tggctgtgct 480
gtgtgtggca ctggtggtgg tggtcacatg ggtgaaag 518
```

<210> 13
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 70106729V1

```
<400> 13
atagtgaata taaccatgga agtctccaaa cctctctgtc tctatgtgca tctccctgat 60
gttttctgtc ttaataatca cttagtggtc tgggcttctt aggaacagtc tttcaatagc 120
cttttgaaca ccgatggccc tgcgaataaa aatgtcaatg ggaaatggtc taaagtgctg 180
gccaaagggtg atgacgatgg ctgtgttttt gtcacctgat agccgggtcaa tttcccagg 240
gatataatca tgatctatca gagagtagag ctggaaagtg acgaagggat agctatgttt 300
tttccattga atctgagtggt gtctttctgc atccagaagc aaatgtttct taaagattcc 360
agtttcatga agatcaaaaa acttcagtggt ttttacaact ttggggaagt agtagatcca 420
ctgacgtagt gtagagtctc ccaggaggta aatgagtttg ct 462
```

<210> 14
<211> 531
<212> DNA
<213> Homo sapiens

<220>

PC-0028 US

<221> misc_feature

<223> Incyte ID No: 70107804V1

<400> 14

```
ttttatttgc ttttaaaaaa cttttttaat atttttaaagc agcatcagaa ccaggcatgg 60
tatagtcatt cttcatgaat gattctcttg gttttgcatc ccttatcagt tgtcattgtc 120
cttacatagc cttcctcccc aaacagattc ttttaaattt attttcctta gttcctaaaa 180
tgagtaaaac ttactttaca atacatgtgg gattatgtgc agagattggg tcctagtgat 240
tttgtatagt atttatccct tagcaaagt agtttaagaa catgttaatc tgatttccaa 300
tcacatgac aggtgggtgg atagtgtcag tgccatatgc aatgggtcatg tcccaggcat 360
caatgatgcc cacgttgagg tctttgaaaa tacccttcat gataagatag tgaatataac 420
catggaagtc tccaaacctc tctgtctcta tgtgcacctc cctgatgttt tctgtcttaa 480
taatcacttt agtggctggg ctttttagga acagtctttc aatagccttt t 531
```

<210> 15

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5865314H1

<220>

<221> unsure

<222> 2, 15, 50

<223> a, t, c, g, or other

<400> 15

```
gnaaaaccaa gagantcatt catgaagaat gactatacca tgcctgggtn tgatgctcgt 60
ttaaataatt aaaaaagttt tttaaaagcc atgttattaa gctgatttga aaatatctgt 120
acaaattcat gatgctttct atttccaata tagatatctc ctagctctgt ctattgaaaa 180
ggcctaggag caatgataac ccattagcaa taatcactcc gagcacccta actgtgatgt 240
ctaagaaccc ttcctcaata aaagaaaaga ggcac 276
```

<210> 16

<211> 206

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701244557H1

<400> 16

```
ccagccctga cggcaggcgc ttctggaaaa gtgacagact tcaacaatgg cgcctaccta 60
gtcagcttca ctctgctctg ggagggccag gtctccctgt ctatcctgct catgcacccc 120
agtgaagggg tgtcagctct ctggagagca aggaaccagg gttacgacag aatcatcttc 180
tcaggccatt ttgtcagtgg cgcttc 206
```

<210> 17

<211> 291

<212> DNA

<213> Rattus norvegicus

<220>

PC-0028 US

<221> misc_feature

<223> Incyte ID No: 700306567H1

<400> 17

```
cctggaagat attctttaag gcaagatact ggggtgtaacc gtggaagtca ctaaacctct 60
ccatgtcggtt attcaactcc ctgggtgtttt ctgttttgag gaccaccagg gtgtccgggc 120
ttctctggag aagacgctga agagctctgt gaacactgag ggcccttcgg ataaaaacat 180
caatgggaaa aggtctgaaa tgctggccca gagaaaagac aatgactgtg tttttctctc 240
ctccgattct gtcaattatc cgtgcagtgt tctctatctc ttgacagag t 291
```

<210> 18

<211> 244

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 700141983H1

<400> 18

```
agcttccttc taatcgggtc attggtgtac tctgtcaaag agatagagaa cactgcacgg 60
ataattgaca gaatcggagg agagaaaaac acagtcattg tcttttctct gggccagcat 120
ttcagacctt ttcccattga tgtttttata cgaaggggccc tcagtgttca cagagctctt 180
cagcgtcttc tccagagaag cccggacacc ctggtggtcc tcaaaacaga aaacaccagg 240
gagt 244
```

<210> 19

<211> 270

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701725590H1

<400> 19

```
catggcttcc ctctaactcg gtcattgggtg tactctgtca aagagataga gaacactgca 60
cggataattg acagaatcgg aggagagaaa aacacagtca ttgtcttttc tctgggccag 120
catttcagac cttttcccat tgatgttttt atccgaaggg ccctcagtgt tcacagagct 180
cttcagcgtc ttctccttag aagcccggac accctgggtg tcctcaaaac agaaaattat 240
agggagttga ataacgacat ggagaggttt 270
```

<210> 20

<211> 288

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 700363665H1

<400> 20

```
aacacagtca ttgtcttttc tctgggccag catttcagac cttttcccat tgatgttttt 60
atccgaacgg ccctcagtgt tcacagagct cttcagcgtc ttctccttag aagcccggac 120
accctgggtg tcctcaaaac agaaaacacc atggagttga ataacgacat ggagaggttt 180
agtgattcca cggttacacc cagtatcttg ccttaaagaa tatcttccag gatctccgtg 240
```

PC-0028 US

tgggtgtcat tgatgcctgg gatatgacag ttgcatatgg cacaaacg 288

<210> 21
<211> 275
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701473585H1

<400> 21
gcagcaccaa cttgccgtgg acttggatga gaaaatcaac atccagtggc agaaacatgg 60
cttcctctta atcgggtcat tgggtgtactc tgtcaaagag atagagaaca ctgcacggat 120
aattgacaga atcggaggag agaaaaacac agtcattgtc ttttctctgg gccagcattt 180
cagacctttt cccattgatg tttttatccg ataggccctc agtggtcaca gagctcttca 240
gcgtcttctc cagagaagcc cggacaccct ggtgg 275

<210> 22
<211> 257
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700600759H1

<400> 22
gccaggctct cctgtctatc ctgctcatgc accccagtga aggggtgtca gctctctgga 60
gagcaaggaa ccaaggctat ggtagaattg ctttcaaagg gacttttggt aatggcacat 120
ccaaggtcac agctgaatgt ggcctgatcc tgaactcaag cagtgaagctc tgcaaatacc 180
tgtaccgtgg tggcgaggaa gtcttctact gcgtgaagcc tcaacacatg ccctgtgagg 240
ccctgaccta cgtgtgt 257

<210> 23
<211> 276
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701460109H1

<400> 23
tatgggctgt gtttaagctg cctgcatcct tcaatcaatg ggacttgatc atgaaatcct 60
catgccctaa agtgcctctc aatccatcag tttcaccaac agagacagaa ctgagaatca 120
aggagatcct agagaaacta aacaaacaga tccctcccag acccttcgcc cacctcaaca 180
acaccacaag tgctacacac agcatagcca ccctcctcaa ccctcaagat acatactgtg 240
taggggacca gctggacatc ctggtagagg ctagag 276

<210> 24
<211> 250
<212> DNA
<213> Rattus norvegicus

<220>

PC-0028 US

<221> misc_feature

<223> Incyte ID No: 701420417H1

<400> 24

```
aacaaggaca tttcttatct tagccagcag gaaaggagcc tctttgaaag gtcaaatata 60
gctgtggaga ttatgggaaa atccaacgtg attagtgtct ccaaagccgc 120
ccggtgaaga agaaatgcaa gtttgggatg gcatctgcaa tccctactgg gcatgtctgg 180
aaaaacacgt ggaatccggc ctctgcagt ctggctccaa tcaaatgaa agactgtctg 240
agaggaaaac 250
```

<210> 25

<211> 248

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701634496H1

<400> 25

```
cggacaccct ggtggctctc aaaacagaaa acaccaggga gttgaataac gacatggaga 60
ggttttagtga cttccacggt tacaccagc atcttgctt aaagaatatc ttccaggatc 120
tccgtgtggg tgtcattgat gcctgggata tgacagttgc atatggcaca aacgatgtcc 180
atccaccaga ggaggtagtt agaagtgaat ttaatatatt cttaaactat atttgctagc 240
aaacacat 248
```

<210> 26

<211> 329

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701601584H1

<400> 26

```
ttaaagaata tcttccagga tctccgtgtg ggtgtcattg atgcctggga tatgacagtt 60
gcatatggca caaacgatgt ccatccacca gaggaggtag ttagaagtga aattaatata 120
ttcttaaact atatttgcta gcaaacacat aactttgaaa gtcgctcgtt gaacttaaaa 180
gagacagtga gtcctacagc cgtgccaagt gccgagatat ccaggttaat ccaaggacat 240
aatctgtatt atggtccatg tgggtccatc agttcagcct aataaggcat tcctacgcca 300
gcctgctgct caaaattgaa tatgaaaag 329
```

<210> 27

<211> 144

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701940254H1

<400> 27

```
agcctctttg aaagggtcaaa tatagctgtg gagattatgg gaaaatccaa cgtgattagt 60
gtctccaaat gcaacaggtt ctttgaaaaa gatggaaggc acttaataaa cacagatgaa 120
ctggtgtttt agaagacccc atct 144
```

PC-0028 US

<210> 28
<211> 262
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701463630H1

<400> 28
gggaaaagggt ctgaaatgct ggcccagaga aaagacaatg actgtgtttt tctctcctcc 60
gattctgtca attatccgtg cagtgttctc tatctctttg acagagtaca ccaatgaccc 120
gattagaggg aagccatggt tctgccactg gatgttgatt ttctcatcca agtccacggc 180
aagttgggtgc tgcagccttc cagtctcgtg gaggtccacc ggcctcagcg tggttgatttt 240
gcttttgaag tactccatcc ac 262

<210> 29
<211> 277
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701623610H1

<400> 29
ctcacacgga gatcctggaa gatattcttt aaggcaagat actgggtgta tccgtggaag 60
tactgatgc ctgggatatg acagttgcat atggcacaaa cgatgtccat ccaccagagg 120
aggtagttag aagtgaatt aatatattct taaactatat ttgctagcaa acacataact 180
ttgaaagtcg ctggttgaac ttaaaagaga cagtgagtc tacagccgtg ccaagtgccg 240
agatatccca gttaatccaa ggacataatc tgtatta 277

<210> 30
<211> 1005
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: GNN.g9965027_000007_006

<400> 30
atgtcttccc cagcgtgat ggcaggtgct tcaggaaagg tgactgactt caacaacggc 60
acctacctgg tcagcttcac tctgttctgg gagggccagg tctctctgtc tctgctgctc 120
atccacccca gtgaaggggt gtcagctctc tggagtgcaa ggaaccaagg ctatgacagg 180
gtgatcttca ctggccagtt tgtcaatggc acttcccaag tccactctga atgtggcctg 240
atcctaataa caaatgctga attgtgccag tacctggaca acagagacca agaaggcttc 300
tactgtgtga ggcctcaaca catgccctgt gctgcactca ctcacatgta ttctaagaac 360
aagaaagttt cttatcttag caaacaagaa aagagcctct ttgaaaggtc aaatgtgggt 420
gtagagatta tggaaaaatt caatacaatt agtgtctcca aatgcaacac actgaagtca 480
gtggatctgc atgaatctgg aaaattgcaa caccagcttg ctgtggattt ggataggaac 540
atcaacatcc agtggcaaaa atattgttat cccttgatag gatcaatgac ctattcagtc 600
aaagagatgg agtacctcac ccgggccatt gacagaactg gaggagaaaa aaatactgtc 660
attgttatatt ccctggggcca gcatttcaga ccctttccca ttgatgtttt tatccgaagg 720
gccctcaatg tccacaaagc cattcagcat cttcttctga gaagcccaga cactatgggt 780
atcatcaaaa cagaaaacat caggagatg tacaatgatg cagaaagatt tagtgacttt 840

PC-0028 US

catgggttaca ttcaatatct catcataaag gacattttcc aggatctcag tgtgagtatc 900
attgatgcct gggatataac aattgcatat ggcacaaata atgtacaccc acctcaacat 960
gtagtcggaa atcagattaa tatattatta aactatattt gttaa 1005

<210> 31
<211> 1545
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: GNN.g9795680_006.edit

<400> 31
ctttggtctg ctctaaactt atccatctct gtccattact ggaacaactc cgcaaagtcc 60
ttattcccta aaacatcact gataccatta aagccactaa cagagactga actcagaata 120
aaggaaatca tagagaaact agatcagcag atcccaccca gacctttcac ccatgtgaac 180
accaccacca gtgccacaca cagcacagcc accatcctca accctcgaga tacatactgc 240
aggggagacc agctggacat cctactggag gtgagggacc acttgggaca gaggaagcaa 300
tatgggtgggg atttcctgag ggccaggatg tcttccccag cactgacggc aggtgcttca 360
ggaaaggtga tggacttcaa caatggcacc tacctgggtca gcttcaactct gttctgggag 420
ggccaggctc cctgtctctc gctgctcacc caccacagtg aagggggcgtc ggctctctgg 480
agggcaagga accaaggcta tgataaaatt attttcaaag gcaaatttgt taatggcacc 540
tctcatgtct tcaactgaatg tggcctgacc ctaaactcaa atgctgaact ctgtgaatat 600
ctggatgaca gagaccaaga agccttctat tgtatgaagc ctcaacacat gccctgtgag 660
gctctgacct acatgaccac ccggaataga gaggtatctt atcttacaga caaggaaaac 720
agccttttcc acaggtccaa agtgggaggt gaaatgatga aggatcgtaa acacattgat 780
gtcactaatt gtaacaagag agaaaaaata gaagagacat gccaagtttg aatgaagcct 840
cctgtccctg gtggttatac tttaacaagga aaatggataa caacattttg caaccagggt 900
cagttagaca caattaagat aaatggctgt ttgaaaggca aactcattta cctcctggga 960
gactctacac tacgtcagtg gatctactac ttccccaaag ttgtaaaaac actgaagttt 1020
tttgatcttc atgaaactgg aatctttaaag aaacatttgc ttctggatgc agaaagacac 1080
actcagattc aatggaaaaa acatagctat cccttcgtca ctttccagct ctactctctg 1140
atagatcatg attatatccc tcgggaaatt gaccggctat caggtgacaa aaacacagcc 1200
atcgtcatca cctttggcca gcactttaga ccatttccca ttgacatttt tattcgcagg 1260
gccatcgggtg ttcaaaaggc tattgaaaga ctgttcctaa gaagcccagc cactaaagtg 1320
attattaaga cagaaaacat cagggagatg cacatagaga cagagagggt tggagacttc 1380
catgggttata ttcaactatc tatcatgaag gatattttca aagacctcaa cgtgggcatc 1440
attgatgcct gggacatgac cattgcatat ggcactgaca ctatccaccc acctgatcat 1500
gtgattggaa atcagattaa catgttctta aactacattt gctaa 1545

<210> 32
<211> 540
<212> PRT
<213> Oryctolagus cuniculus

<220>
<221> misc_feature
<223> Incyte ID No: g1762

<400> 32
Met Leu His Lys Tyr Leu Lys Leu Ile Cys Leu Leu Ala Ala Ile
1 5 10 15
Cys Val Leu Cys Ile Ile Ser Gln Asn Ser Thr Lys Ile Trp Gly
20 25 30
Ala Leu Lys Leu Pro Asn Ser His Tyr Tyr Ser Asn Thr Ser Met

PC-0028 US

Ile	Ser	Ser	Ile	Pro	Lys	Met	Ser	Val	Ser	Pro	Val	Lys	Ser	Leu	35	40	45
Thr	Glu	Thr	Glu	Leu	Arg	Val	Lys	Glu	Ile	Leu	Glu	Lys	Leu	Asp	50	55	60
Arg	Leu	Ile	Pro	Pro	Arg	Pro	Phe	Thr	His	Val	Asn	Thr	Thr	Thr	65	70	75
Ser	Ala	Thr	His	Ser	Thr	Ala	Thr	Ile	Leu	Asn	Pro	Gln	Asp	Lys	80	85	90
Tyr	Cys	Val	Gly	Asp	Gln	Leu	Asp	Ile	Leu	Leu	Glu	Val	Arg	Asp	95	100	105
Tyr	Leu	Gly	His	Gln	Lys	Glu	Tyr	Gly	Gly	Asp	Phe	Leu	Arg	Ala	110	115	120
Arg	Met	Phe	Ser	Pro	Ala	Leu	Lys	Ala	Gly	Ala	Ser	Gly	Lys	Val	125	130	135
Thr	Asp	Phe	Asn	Asn	Gly	Thr	Tyr	Leu	Val	Ser	Phe	Thr	Leu	Phe	140	145	150
Trp	Glu	Gly	Gln	Val	Ser	Leu	Ser	Val	Leu	Leu	Ile	His	Pro	Ser	155	160	165
Glu	Gly	Ala	Ser	Ala	Leu	Trp	Arg	Ala	Arg	Asn	Gln	Gly	Tyr	Asp	170	175	180
Arg	Ile	Ile	Phe	Lys	Gly	Gln	Phe	Val	Asn	Gly	Thr	Ser	His	Val	185	190	195
Phe	Thr	Glu	Cys	Ser	Leu	Thr	Leu	Asn	Ser	Asn	Thr	Glu	Glu	Cys	200	205	210
Lys	Tyr	Leu	Asn	Gly	Arg	Asp	Gln	Asp	Val	Phe	Tyr	Cys	Met	Lys	215	220	225
Pro	Gln	His	Met	Pro	Cys	Glu	Ala	Leu	Thr	His	Val	Thr	Ser	Arg	230	235	240
Asn	Arg	Asp	Ile	Ser	Tyr	Leu	Thr	Ser	Lys	Glu	Lys	Asn	Leu	Phe	245	250	255
His	Arg	Ser	Lys	Val	Gly	Val	Glu	Ile	Met	Lys	Asn	Gln	His	Ile	260	265	270
Asp	Val	Ser	Gln	Cys	Asn	Lys	Ser	Lys	Glu	Val	Lys	Glu	Lys	Cys	275	280	285
Gln	Ile	Gly	Met	Lys	Ile	Pro	Val	Pro	Gly	Gly	Tyr	Thr	Leu	Gln	290	295	300
Gly	Arg	Trp	Leu	Thr	Thr	Phe	Cys	Asn	Gln	Ile	Gln	Leu	Asp	Thr	305	310	315
Ala	Lys	Ile	Ser	Gly	Cys	Leu	Lys	Gly	Lys	Leu	Ile	Tyr	Leu	Met	320	325	330
Gly	Asp	Ser	Thr	Leu	Arg	Gln	Trp	Ile	Tyr	Tyr	Leu	Pro	Lys	Val	335	340	345
Met	Lys	Thr	Leu	Lys	Phe	Phe	Asp	Leu	His	Glu	Thr	Gly	Asn	Phe	350	355	360
Lys	Lys	His	Leu	Leu	Leu	Asp	Ala	Glu	Lys	His	Thr	Gln	Ile	Gln	365	370	375
Trp	Lys	Lys	His	Ser	His	Pro	Phe	Val	Thr	Tyr	Gln	Leu	Phe	Ser	380	385	390
Val	Ile	Asp	His	Gly	Tyr	Ile	Pro	Gln	Glu	Ile	Asp	Arg	Leu	Ile	395	400	405
Gly	Asp	Lys	Asp	Thr	Val	Ile	Val	Ile	Thr	Phe	Gly	Gln	His	Phe	410	415	420
Arg	Pro	Phe	Pro	Ile	Asp	Ile	Phe	Ile	Arg	Arg	Ala	Ile	Ser	Val	425	430	435
Arg	Gln	Ala	Ile	Glu	Arg	Leu	Phe	Leu	Arg	Ser	Pro	Ala	Thr	Lys	440	445	450

[illegible]

16